GATA 7(8): 234, 1990

Author Index Volume 7

Ålin P (*see* Tymms MJ)
Antonarakis SE (*see* McCormick MK)
Ascione R (*see* Samuel KP)

Barber AM 39
Beltz GA (*see* Isaac Murphy C)
Besbeas S (*see* Schweinfest CW)
Blin N (*see* Dooley S)
Burke DT 94

Cheetham BF (*see* Tymms MJ)
Cheng J-F 119
Chiu I-M 18
Crossway A (*see* Irvine JM)

Dion M 32
Dooley S 133

Efstratiadis A (*see* Welsh J)
Eloranta J (*see* Tenhunen J)
Evans GA (editorial) 1, 209

Fieck A (*see* Kohler SW)

Gómez–Márquez J (*see* González A)
González A 2
Gu J-R (*see* Schweinfest CW)

Hamelin C (*see* Dion M)
Henderson KW (*see* Schweinfest CW)
Hieter P (*see* McCormick MK)
Hieter P (*see* Reeves RH)
Hornes E 145

Irvine JM 25
Isaac Murphy C 160
Itakura K (*see* Kajimura Y)

Kajimura Y 71
Kallio A (*see* Tenhunen J)
Kohler SW 212
Konopka AK 35
Korsnes L (*see* Hornes E)
Kotsinas A (*see* Spandidos DA)
Kottaridis SD (*see* Samuel KP)
Kottaridis SD (*see* Schweinfest CW)
Kretz PL (*see* Kohler SW)
Krull J (*see* Kajimura Y)

Lautenberger JA (*see* Samuel KP)
Lehar SM (*see* Isaac Murphy C)
Lehtoma K (*see* Chiu I-M)
Lennick M (*see* Isaac Murphy C)
Linnane AW (*see* Tymms MJ)
Liu J-P (*see* Welsh J)
Longo FM (*see* Stamm S)
Lundeberg J 47

Maizel JV Jr (*see* Barber AM)
Mansour SL 219
Maurer HR (*see* Spandidos DA)
McCormick MK 114
McInnes B (*see* Tymms MJ)
Merante F (*see* Raha S)
Miyakoshi S (*see* Kajimura Y)

Nelson DL 100

Oakes JV (*see* Irvine JM)
Owens J (*see* Konopka AK)

Panotopoulou E (*see* Schweinfest CW)
Papas TS (editorial) 1
Papas TS (*see* Samuel KP)
Papas TS (*see* Schweinfest CW)
Patsilinacos P (*see* Spandidos DA)
Pavan WJ (*see* Reeves RH)
Pestka S (*see* Soh J)
Proteau G (*see* Raha S)
Provost GS (*see* Kohler SW)
Raha S 173
Reed JK (*see* Raha S)
Reeves RH 107

Samuel KP 178
Schweinfest CW 64
Seth AK (*see* Samuel KP)
Shewmaker CK (*see* Irvine JM)
Short JM (*see* Kohler SW)
Smith CL (editorial) 1, 93
Smith CL (*see* Cheng J-F)
Smith LM (editorial) 1
Söderlund H (*see* Tenhunen J)
Soh J 80
Somerville RL (*see* Zeilstra–Ryalls JH)
Sorge JA (*see* Kohler SW)
Spandidos DA 138
Stamm S 142
Sternberg NL 126
Strouboulis J (*see* Samuel KP)
Surdin-Kerjan Y (*see* Thomas D)

Tenhunen J 228
Theisinger B (*see* Dooley S)
Thomas D 87
Toyoda H (*see* Kajimura Y)
Tymms MJ 53

Uhlén M (*see* Lundeberg J)

Wahlberg J (*see* Lundeberg J)
Welsh J 5
Welter C (*see* Dooley S)

Yelle J (*see* Dion M)
Young E (*see* Isaac Murphy C)

Zeilstra–Ryalls JH 151
Zoumpourlis V (*see* Spandidos DA)
Zuber M (*see* Samuel KP)

GATA 7(8): 235–237, 1990

Subject Index Volume 7

Affinity chromatography, DNA–protein interactions in 133
Affinity chromatography, of specific DNA fragments 47
Agarose matrix, DNA embedded in 114
Aminoglycoside phosphotransferase gene, as selectable marker in pBHIV1 138
Autographa californica nuclear polyhedrosis virus, in temporal expression of HIV-1 envelope proteins 160

Bacteriophage DNA, purification of 2
Bacteriophage λgt11, in cDNA library production 18
Bacteriophage P1 cloning system, as alternative to YACs for cloning cDNA 126
Baculovirus-infected insect cells, HIV-1 envelope protein temporal expression in 160
Barnes "kilosequencing" method, modification of 87

CD4 binding ability, in recombinant HIV envelope proteins 160
Cesium chloride gradient centrifugation, in isolation of total RNA 173
Chloramphenicol acetyl transferase (CAT) gene plasmid, in transcriptional activation of HIV long terminal repeat sequences 138
cis-platin, transcriptional activation of HIV long terminal repeat sequences by 138
Colon carcinoma, subtraction hybridization cDNA libraries from 64
Complement DNA (cDNA),, cloning of into plasmid vector 18
Complement DNA (cDNA), cloning of PCR-amplified 5
Complement DNA (cDNA), subtraction hybridization libraries 64
Complexity charts, in mappign DNA functional domains 35
Cytomegalovirus (CMV), human strain AD-169, physical mapping of temperature-sensitive mutation of 32

Direct sequencing, of PCR products 142
DNA, bacteriophage, purification of 2
DNA, biotinylated, hybrid selection of mRNA with 80
DNA, embedded in agarose matrix, YAC cloning of 114
DNA, mammalian, cloned as YACs 107
DNA, total cellular, isolation of from cultured cells 173
DNA fragments, affinity purification of 47
DNA fragments, large, generating family of unidirectional deletions on 87
DNA functional domains, complexity charts in mapping 35
DNA hybridization properties, magnetic, of oligonucleotide probes attached to superparamagnetic beads 145
DNA–protein interaction, generating highly labeled oligonucleotides for 133
DNA sequences, rapid screen for detection of in plants 25

Editorial
GATA referees: 1989–1990 210
GATA's New Format 93
introductory 1
The Technology and Literature of Molecular Genetics 209
Embryonic stem cells, murine, gene targeting in 219
Escherichia coli, retroviral gene product expression in 178
Escherichia coli strain Y1088, pBR322-derived plasmid endogenous to 18
N-Ethyl-*N*-nitrosourea, exposure of lambda transgenic mice to 212

208F fibroblasts, rat, pBHIV1 introduced in 138
Fragment tagging, in DNA cloning and plasmid construction 151

Gel filtration chromotography, bacteriophage DNA purification by 2
Gel mobility shift, DNA-protein interactions in 133
Guanidinium thiocyanate, in isolation of total RNA 173

HCMV *ts*1585 mutation, physical mapping of by marker rescue 32
Hepatic cancer, subtraction hybridization cDNA libraries from 64
*Hind*III restriction endonuclease fragments, in physical mapping of HCMV *ts*1585 32
Histograms, oligomer frequency, generation of 39
Human immunodeficiency virus-1 (HIV-1), transcriptional activation of long terminal repeat sequences of 138
Human immunodeficiency virus-1 (HIV-1) envelope proteins, temporal expression of in baculovirus-infected insect cells 160
Hybrid selection, of mRNA with biotinylated DNA 80
Hybridization specificity, effect of probe length and stringency conditions on 71

IgG binding, by *lac* repressor fusion protein 47
Immunoglobulin variable regions, in pre-mRNA sequences, complexity charts of 35
IMR-32 neuroblastoma cells, N-*myc* mRNA molecules in 228
Insect cells, baculovirus-infected, HIV-1 envelope protein temporal expression in 160
Interferon-α4, structure-function studies of 53
In vitro expression, interferon-α4 structure-function studies based on 53
IPTG induction, by *lac* repressor fusion protein 47

λ DNA, linear phage, high-scale purification of 2
λgt11 phage DNA, cloning of cDNA insets from into plasmid vector 18
λP_L promoter pJL6 vector system, retroviral gene product expression in *Escherichia coli* with 178
λZAP vector, in vivo excision properties of 212
λZAP II phage vector system, cDNA libraries constructed using 64

lac repressor fusion protein, affinity purification of DNA fragments via 47
*lac*Z target gene, in generation of transgenic mice 212
Lithium chloride, simultaneous isolation of total cellular RNA and DNA from tissue culture cells using 173
Local compositional complexity, of DNA sequences, measurement of 35
Long terminal repeat, HIV, transcriptional activation of 138

M13 replicative form bacteriophage DNA, high-scale purification of 2
Magnetic separation, mRNA purification via 145
Major histocompatibility complex (MHC) class II beta genes, long synthetic nucleotides synthetic for 71
Marker rescue, physical mapping of human cytomegalovirus mutation by 32
Maxam–Gilbert method, in direct sequencing of PCR products 142
Meetings and workshops calendar 91
Messenger RNA (mRNA), hybrid selection of with biotinylated DNA 80
Messenger RNA (mRNA), oncogene, determining amount and stability of 228
Messenger RNA (mRNA), poly(A), isolation of from eukaryotic cells 145
Mouse oocyte cDNA library, construction of 5
Multiple aligned genetic sequences, editing 39
Mung bean nuclease, for trimming DNA edges 87
Mutagenicity testing, in vivo, transgenic mice in 212
N-*myc* mRNA, determining amount and stability of 228

Nested deletions, series of 87
Nuclear polyhedrosis virus, in temporal expression of HIV-1 envelope protiens 160

Oligo(dT) celulose affinity chromatography, poly(A) mRNA purified via 145
Oligomer frequency histograms, generation of 39
Oligonucleotide probes, attached to superparamagnetic beads 145
Oligonucleotides, highly labeled, generation of for DNA-protein interaction 133
Oligonucleotides, long synthetic, application of for gene analysis 71
Oligonucleotide synthesizer, commercial 133

p202A plasmid, in transcriptional activation of HIV long terminal repeat sequences 138
pBHIV1 plasmid, in transcriptional activation of HIV long terminal repeat sequences 138
pBR322 plasmid vector, cDNA inserts cloned into 18
Phenol, simultaneous isolation of total cellular RNA and DNA from tissue culture cells using 173
Physical mapping, of temperature-sensitive mutation of human cytomegalovirus 32
Plants, rapid screen for DNA sequence detection in 25
Polymerase chain reaction (PCR), cDNA amplified by, in construction of mouse oocyte cDNA library 5
Polymerase chain reaction (PCR), in generation of differential probes 64
Polymerase chain reaction (PCR), in hybrid selection of mRNA with biotinylated DNA 80
Polymerase chain reaction (PCR), products, direct sequencing of 142
Pre-mRNA sequences, from higher eukaryotes, complexity charts for 35
Probe length, effect of on hybridization specificity 71
pUC vector, in modified Barnes "kilosequencing" method 87
Pulsed field gel electrophoresis, cloning of restriction fragments isolated by 114
pVL941 plasmid, as baculovirus expression vector 160

Random mutagenesis, interferon-α4 structure-function studies based on 53
Rapid screen, for DNA sequence detection in plants, Retroviral gene products, expression of in *Escherichia coli* 178
Referees 211
RFBHIV1–1 transfectant cells, stable geneticin resistant 138
RNA, mouse oocyte poly(A)$^+$, indirect measurement of sequence complexity of 5
RNA, total cellular, isolation of from cultured cells 173

Saccharomyces cerevisiae, mammalian DNA segments propagated in 107
Saccharomyces cerevisiae, human telomeres cloned in 119
SequenceEditingAligner, for editiing multiple aligned genetic sequences 39
Shannon information content, calculation of over mononucleotide frequencies, local compositional complexity of DNA sequences calculated via 35
Solid phase technique, for purification of specific DNA sequences 47
Solution hybridization method, or quantification of specific mRNAs 228
Spodoptera frugiperda (Sf9) cells, HIV-1 envelope proteins and CD4 polypeptide expressed in 160
Staphylococcal protein A gene, fusion between *lac*I gene and 47
Streptavidin agarose, in trapping hybrid duplex of mRNA-DNA-biotin onto solid matrix 80
Stringency conditions, effect of on hybridization specificity 71
Structure-function studies, of interferon-α4 53
Subtraction hybridization cDNA libraries, from colon carcinoma and hepatic cancer 64
Superparamagnetic beads, magnetic DNA hybridization properties of oligonucleotide probes attached to 145

T24 H-*ras*1 promoter, linked to promoterless *cat* gene 138
Telomeres, YAC cloning of 119
Transcriptional activation, of HIV long terminal repeat sequences 138
Transgenic mice, in mutagenicity testing 212

Ultraviolet (UV)-crosslinking,

DNA-protein interactions in 133
Unidirectional deletions, generating family of on large DNA fragments 87

Wick blot, for DNA sequence detection in plants 25

Yeast artifical chromosome (YAC) clones, alternatives to 126
Yeast artifical chromosome (YAC) clones, characterization of 100
Yeast artifical chromosome (YAC) clones, mammalian DNA as 107
Yeast artifical chromosome (YAC) cloning, of DNA embedded in agarose matrix 114
Yeast artifical chromosome (YAC) cloning, options and problems in 94
Yeast artifical chromosome (YAC) cloning, of telomeres 119